

## CLAIMS

5 1/ A system for transforming the movements of at least  
one joint of a user selected from the group constituted  
by the knee, the elbow, the shoulder, the hip, or the  
ankle, into control signals for a computer, the system  
comprising a sleeve (21d, 21g, 41d, 41g) for putting on  
over the joint and a movement sensor (20d, 20g, 40d, 40g)  
fixed to the sleeve, the apparatus being characterized in  
that the sensor (20d, 20g, 40d, 40g) is an on/off sensor  
and is directly subject to the movements of the walls of  
the sleeve (21d, 21g, 41d, 41g).

15 2/ Apparatus according to claim 1, characterized in that  
the sensor (20d, 20g, 40d, 40g) is designed to be placed  
and held in the hollow of the joint.

20 3/ Apparatus according to claim 1 or claim 2,  
characterized in that the sensor includes a magnetic  
detector (23d) for placing on one side of the joint and a  
piece (22d) that is detectable by the detector (23d) and  
placed on the other side of the joint.

25 4/ Apparatus according to claim 1 or claim 2,  
characterized in that the sensor includes an air bag  
(220d) and a sensor (23d) responsive to a pressure  
increase that appears in said air bag (210d).

30 5/ Apparatus according to claim 1 or claim 2,  
characterized in that the sensor (20d, 20g, 40d, 40g)  
includes a mechanically-controlled switch (123d) for  
placing on a first side of the joint, and a projecting  
piece (122d) for placing on the opposite side of the  
joint and designed to constitute an abutment for said  
mechanically-controlled switch (123d).

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## AMENDED SHEET

6/ Apparatus according to any preceding claim,  
characterized in that the sensor (20d, 20g, 40d, 40g) is  
designed to be placed on a shoulder of the user.

5 7/ Apparatus according to any preceding claim,  
characterized in that the sensors (20d, 20g, 40d, 40g) is  
designed to be placed on a hip of the user.

8/ Apparatus according to any preceding claim,  
10 characterized in that the sensor (20d, 20g, 40d, 40g) is  
designed to be placed on an ankle joint.

9/ Apparatus according to any preceding claim,  
characterized in that it comprises mechanical members  
15 (10, 30d, 30g) for applying mechanical actions on parts  
of the user's body under the control of a computer.

10/ Apparatus according to any preceding claim,  
characterized in that it includes a processor module (10)  
20 suitable for transforming the output signals from the  
sensor (20d, 20g, 40d, 40g) into signals usable by the  
computer.

ADD  
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# AMENDED SHEET

This translation of an amended page covers the amendments made in the original.  
However, the page breaks match the translation, so that this page is also a  
replacement page that fits in with the remainder of the translation